

## Prentice Hall Mathematics: Algebra 2

Publisher: Pearson/ Prentice Hall

**Evaluator Name(s):** Durham, Lori Kettler, Michael

Content Level: Algebra 2

Copyright: 2004

### Overall Strengths and/or Weaknesses

**Disclaimer:** Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

#### CONTENT/PROCESS

**Strengths:** Matrices are fully developed in a separate chapter. There are numerous data-driven activities throughout the text. Most concepts on KY's Core Content are addressed somewhere in the book. Reading comprehension is addressed through student exercises and separate reading strategy resource pages. Simplifying radicals has been added in the chapter.

**Weaknesses:** There is a limited number of exercises in the student text involving parallel and perpendicular lines. Piecewise functions are addressed as an extension.

#### ASSESSMENT

**Strengths:** Samples were not available for review.

**Weaknesses:** Samples were not available for review.

#### ORGANIZATION AND STRUCTURE

**Strengths:** Vocabulary terms are highlighted in yellow. The glossary is in Spanish as well as English. Multiple examples of problems are provided.

**Weaknesses:** none observed

#### STUDENT EXPERIENCES

**Strengths:** Student exercises are keyed to lesson examples. Text has a consistent "Problem-Solving Strategy" for word problems throughout instruction.

**Weaknesses:** none observed

#### TECHNOLOGY

**Strength:** Samples were not available for review.

**Weaknesses:** Samples were not available for review.

#### RESOURCE MATERIALS

**Strengths:** Online vocabulary quizzes and lesson quizzes are available. Other resources were not available for review.

**Weaknesses:** Samples were not available for review.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

**Recommended by reviewers to State Textbook Commission as a basal textbook or program.**

## Prentice Hall Mathematics: Algebra 2

Publisher: Pearson/ Prentice Hall

**OTHER COMMENTS:** Since this textbook has a 2004 copyright, only the student textbook was available for review. Comments related to other materials were based on the descriptions of ancillary materials provided by the publisher. The ancillary materials must be available by July 1, 2003.

### ***PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS***

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

## **STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT**

### **Content/Process**

- 1. Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

**Rating:** Strong

**Comments:** Expanded matrix chapter; limited exercises with parallel and perpendicular lines; trig is at the end of the book; numerous data-driven activities throughout the text; limited work with sampling techniques, biases, and simulations

- 2. Content appears to be free from factual errors.**

**Rating:** Strong

**Comments:** Expanded matrix chapter; limited exercises with parallel and perpendicular lines; trig is at the end of the book; numerous data-driven activities throughout the text; limited work with sampling techniques, biases, and simulations

- 3. Content makes connections to other content areas across the curriculum.**

**Rating:** Strong

**Comments:** Expanded matrix chapter; limited exercises with parallel and perpendicular lines; trig is at the end of the book; numerous data-driven activities throughout the text; limited work with sampling techniques, biases, and simulations

- 4. Concepts and application of skills to real-life situations are introduced when appropriate.**

**Rating:** Strong

**Comments:** Expanded matrix chapter; limited exercises with parallel and perpendicular lines; trig is at the end of the book; numerous data-driven activities throughout the text; limited work with sampling techniques, biases, and simulations

- 5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

## **Prentice Hall Mathematics: Algebra 2**

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**Rating:** Strong

**Comments:** Expanded matrix chapter; limited exercises with parallel and perpendicular lines; trig is at the end of the book; numerous data-driven activities throughout the text; limited work with sampling techniques, biases, and simulations

**6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

**Rating:** Strong

**Comments:** Expanded matrix chapter; limited exercises with parallel and perpendicular lines; trig is at the end of the book; numerous data-driven activities throughout the text; limited work with sampling techniques, biases, and simulations

**7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.**

**Rating:** Strong

**Comments:** Expanded matrix chapter; limited exercises with parallel and perpendicular lines; trig is at the end of the book; numerous data-driven activities throughout the text; limited work with sampling techniques, biases, and simulations

**8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).**

**Rating:** Strong

**Comments:** Expanded matrix chapter; limited exercises with parallel and perpendicular lines; trig is at the end of the book; numerous data-driven activities throughout the text; limited work with sampling techniques, biases, and simulations

**9. Concepts are explored in depth and reinforced throughout.**

**Rating:** Strong

**Comments:** Expanded matrix chapter; limited exercises with parallel and perpendicular lines; trig is at the end of the book; numerous data-driven activities throughout the text; limited work with sampling techniques, biases, and simulations

### **Assessment**

**1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Not Applicable

**Comments:**

**2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating:** Not Applicable

**Comments:**

## **Prentice Hall Mathematics: Algebra 2**

Publisher: Pearson/ Prentice Hall

- 3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating:** Not Applicable

**Comments:**

- 4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Not Applicable

**Comments:**

- 5. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Not Applicable

**Comments:**

- 6. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Not Applicable

**Comments:**

- 7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Not Applicable

**Comments:**

- 8. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating:** Not Applicable

**Comments:**

- 9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating:** Not Applicable

**Comments:**

- 10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Not Applicable

**Comments:**

## **Prentice Hall Mathematics: Algebra 2**

Publisher: Pearson/ Prentice Hall

**11. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Not Applicable

**Comments:**

### **Organization and Structure**

**1. Organization is logical and allows for spiraling of content.**

**Rating:** Strong

**Comments:**

**2. Language is clear and concise with correct grammar and sentence structure.**

**Rating:** Strong

**Comments:**

**3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.**

**Rating:** Strong

**Comments:**

**4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.**

**Rating:** Strong

**Comments:**

**5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).**

**Rating:** Strong

**Comments:**

**6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.**

**Rating:** Strong

**Comments:**

**7. Student materials seem durable and conducive to daily student use (e.g., size, weight).**

**Rating:** Strong

**Comments:**

**8. Textbook includes appropriate and sufficient glossary, index, and appendices.**

## Prentice Hall Mathematics: Algebra 2

Publisher: Pearson/ Prentice Hall

**Rating:** Strong

**Comments:**

**9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.**

**Rating:** Strong

**Comments:**

**10. Materials can be easily understood by students and parents.**

**Rating:** Strong

**Comments:**

### Student Experiences

**1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.**

**Rating:** Adequate

**Comments:**

**2. Both group and individual activities are included.**

**Rating:** Adequate

**Comments:**

**3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.**

**Rating:** Adequate

**Comments:**

**4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.**

**Rating:** Adequate

**Comments:**

**5. Materials and activities encourage students to read, write, and discuss mathematics.**

**Rating:** Adequate

**Comments:**

## **Prentice Hall Mathematics: Algebra 2**

Publisher: Pearson/ Prentice Hall

**6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.**

**Rating:** Adequate

**Comments:**

### **Technology**

**1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

**Rating:** Not Applicable

**Comments:**

**2. Various forms of media are included (e.g., CDs, videos, computer software).**

**Rating:** Not Applicable

**Comments:**

**3. Student materials are available online.**

**Rating:** Not Applicable

**Comments:**

### **Resource Materials**

**1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

**Rating:** Not Applicable

**Comments:**

**2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

**Rating:** Not Applicable

**Comments:**

**3. Extension activities including adaptations and accommodations for students with special needs.**

**Rating:** Not Applicable

**Comments:**

**4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

## **Prentice Hall Mathematics: Algebra 2**

Publisher: Pearson/ Prentice Hall

**Rating:** Not Applicable

**Comments:**

**5. Suggestions are made for integration of themes and/or interdisciplinary instruction.**

**Rating:** Not Applicable

**Comments:**

**6. Suggestions are made for family and community involvement and school/home communication.**

**Rating:** Not Applicable

**Comments:**

**7. The included media are durable, easy to use, and have technical merit.**

**Rating:** Not Applicable

**Comments:**

**8. Teacher resources are available online.**

**Rating:** Not Applicable

**Comments:**



# Algebra I

Publisher: Pearson/Prentice Hall

**Evaluator Name(s):** Vaughn, Selena Dillman, Bruce Collins, Susan Loy, Robin

Content Level: Algebra I

Copyright: 2004

## Overall Strengths and/or Weaknesses

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### CONTENT/PROCESS

**Strengths:** Content of this title fully meets the Ky Core Content expectations for Algebra I as listed in the Program of Studies. The content is presented in a logical fashion, and student exercises draw on knowledge learned in previous lessons. Emphasis is placed on reading of mathematics with many sidebars and separate pages devoted to how to read mathematics.

**Weaknesses:** No weaknesses were observed.

### ASSESSMENT

**Strengths:** The strength of this title lies in its emphasis on developing test-taking skills. Each lesson includes standardized test practice, as well as writing prompts and "open-ended" questions. Throughout the textbook, test-taking strategies are discussed.

**Weaknesses:** Our review was based on only the student textbook--no other resources were available at the time of our review. As such, we saw only a limited amount of assessment tools. We were not able to review any workbooks, teacher's editions or guides, or technology. The bid sheet provided by the company refers to a "unique" Kentucky Assessment System which will include a Kentucky CATS Test Prep Workbook, but these resources were not available to us, and so they are not reviewed.

### ORGANIZATION AND STRUCTURE

**Strengths:** The organization of this title is logical and the format of the textbook is conducive to student learning. The back of the book contains a 27-page "Skills Handbook" that covers basic mathematical skills, one page devoted to each, that could be used for remediation.

**Weaknesses:** Our comments apply only to the organization and structure of the student textbook. Since all other supplemental resources were not reviewed, we cannot comment on their organization or structure.

### STUDENT EXPERIENCES

**Strengths:** Students are exposed to a wide variety of experiences in this title, both individual and in groups. Those experiences include reading, writing, investigating and problem-solving. The mode of student learning is also varied and includes use of technology and hands-on experiences.

**Weaknesses:** No weaknesses were observed.

### TECHNOLOGY

**Strength:** It appears from the student text, that technology is a strong component of this title. Students use calculators, graphing calculators and computers throughout the text.

**Weaknesses:** No technology media was available at the time of the review. The website is not yet updated to reference the 2004 Algebra I book--all Algebra I activities correspond to a previous edition. We viewed the Pre-Algebra CD that was provided with that title in order to get an idea of the format of the media. It included a lesson planning manager, a library resource section and a worksheet/test generator. We assume that the Algebra I CD will be similar.

# Algebra I

Publisher: Pearson/Prentice Hall

## RESOURCE MATERIALS

**Strengths:** Student textbook contains a wide variety of types of mathematical activities that address the varied needs of diverse learners. Throughout the text, students are invited to check their skills and remediate when needed.

**Weaknesses:** Besides the student textbook, no other resources were reviewed, and so no comment can be made about strengths or weaknesses of this supplemental resource material.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

**Recommended by reviewers to State Textbook Commission as a basal textbook or program.**

**OTHER COMMENTS:** This textbook is being recommended based on the fact that it fully covers the required Kentucky Core Content for an Algebra I course. It is also recommended because the quality and variety provided in this text provides an Algebra I program that is instructional and interesting to students. However, no other resource materials were available to be evaluated at the time of this review, and so we are assuming that they will be of a consistent high quality as the student textbook.

## PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

## STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

### Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

**Rating:** Strong

**Comments:**

2. **Content appears to be free from factual errors.**

**Rating:** Strong

**Comments:**

3. **Content makes connections to other content areas across the curriculum.**

**Rating:** Strong

**Comments:**

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

## **Algebra I**

Publisher: Pearson/Prentice Hall

**Rating:** Strong

**Comments:**

**5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

**Rating:** Strong

**Comments:**

**6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

**Rating:** Strong

**Comments:**

**7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.**

**Rating:** Strong

**Comments:**

**8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).**

**Rating:** Strong

**Comments:**

**9. Concepts are explored in depth and reinforced throughout.**

**Rating:** Strong

**Comments:**

### **Assessment**

**1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Strong

**Comments:**

**2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating:** Strong

**Comments:**

## **Algebra I**

Publisher: Pearson/Prentice Hall

- 3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating:** Strong

**Comments:**

- 4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Strong

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- 5. Assessment activities provide opportunities for student integration of technology in the assessment process.**

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- 9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating:** Strong

**Comments:**

- 10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Strong

**Comments:**

# **Algebra I**

Publisher: Pearson/Prentice Hall

**11. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Strong

**Comments:**

## **Organization and Structure**

**1. Organization is logical and allows for spiraling of content.**

**Rating:** Strong

**Comments:**

**2. Language is clear and concise with correct grammar and sentence structure.**

**Rating:** Strong

**Comments:**

**3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.**

**Rating:** Strong

**Comments:**

**4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.**

**Rating:** Strong

**Comments:**

**5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).**

**Rating:** Strong

**Comments:**

**6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.**

**Rating:** Strong

**Comments:**

**7. Student materials seem durable and conducive to daily student use (e.g., size, weight).**

**Rating:** Strong

**Comments:**

**8. Textbook includes appropriate and sufficient glossary, index, and appendices.**

## Algebra I

Publisher: Pearson/Prentice Hall

**Rating:** Strong

**Comments:**

**9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.**

**Rating:** Strong

**Comments:**

**10. Materials can be easily understood by students and parents.**

**Rating:** Strong

**Comments:**

### Student Experiences

**1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.**

**Rating:** Strong

**Comments:**

**2. Both group and individual activities are included.**

**Rating:** Strong

**Comments:**

**3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.**

**Rating:** Strong

**Comments:**

**4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.**

**Rating:** Strong

**Comments:**

**5. Materials and activities encourage students to read, write, and discuss mathematics.**

**Rating:** Strong

**Comments:**

## **Algebra I**

Publisher: Pearson/Prentice Hall

**6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.**

**Rating:** Strong

**Comments:**

### **Technology**

**1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

**Rating:** Strong

**Comments:**

**2. Various forms of media are included (e.g., CDs, videos, computer software).**

**Rating:** Strong

**Comments:**

**3. Student materials are available online.**

**Rating:** Strong

**Comments:**

### **Resource Materials**

**1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

**Rating:** Missing

**Comments:**

**2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

**Rating:** Missing

**Comments:**

**3. Extension activities including adaptations and accommodations for students with special needs.**

**Rating:** Missing

**Comments:**

**4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

## **Algebra I**

Publisher: Pearson/Prentice Hall

**Rating:** Missing

**Comments:**

**5. Suggestions are made for integration of themes and/or interdisciplinary instruction.**

**Rating:** Missing

**Comments:**

**6. Suggestions are made for family and community involvement and school/home communication.**

**Rating:** Missing

**Comments:**

**7. The included media are durable, easy to use, and have technical merit.**

**Rating:** Missing

**Comments:**

**8. Teacher resources are available online.**

**Rating:** Missing

**Comments:**



# Geometry

Publisher: Pearson/Prentice Hall

**Evaluator Name(s):** Collins, Susan Loy, Robin Durham, Keith Lindsey, Janet

Content Level: Geometry

Copyright: 2004

## Overall Strengths and/or Weaknesses

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### CONTENT/PROCESS

**Strengths:** Aligns nicely with Kentucky Core Content and Program of Studies. Text includes ample review of algebra skills.

**Weaknesses:** Minimal technology activities available in the text. (A "Technology Activities Masters" booklet available with gratis items, but not available at time of review.)

### ASSESSMENT

**Strengths:** Text provided a variety of diagnostic, formative, summative, open response, and multiple choice activities.

**Weaknesses:** Teacher resources were not available at the time of review.

### ORGANIZATION AND STRUCTURE

**Strengths:** Logical organization of text enhances spiraling of content. Appendix includes a skills handbook, extra practice section, various tables, all postulates and theorems, and glossary with illustrations.

**Weaknesses:** No weaknesses noted.

### STUDENT EXPERIENCES

**Strengths:** Text provided adequate opportunities for authentic applications and connections. Students are encouraged to read, write, and discuss mathematics.

**Weaknesses:** Minimal group activities in text. Gratis items include "Hand On Activities" and "Reading and Math Literacy Masters" which were unavailable at the time of review.

### TECHNOLOGY

**Strength:** No strengths noted (Resource materials not available at the time of review).

**Weaknesses:** Text offered minimal connection to technology.

### RESOURCE MATERIALS

**Strengths:** Resource materials not available at the time of review.

**Weaknesses:** Resource materials not available at the time of review.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

**Recommended by reviewers to State Textbook Commission as a basal textbook or program.**

**Geometry**  
Publisher: Pearson/Prentice Hall

**OTHER COMMENTS:**

***PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS***

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**STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT**

**Content/Process**

- 1. Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

**Rating:** Adequate

**Comments:**

- 2. Content appears to be free from factual errors.**

**Rating:** Adequate

**Comments:**

- 3. Content makes connections to other content areas across the curriculum.**

**Rating:** Adequate

**Comments:**

- 4. Concepts and application of skills to real-life situations are introduced when appropriate.**

**Rating:** Adequate

**Comments:**

- 5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

**Rating:** Adequate

**Comments:**

- 6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

**Rating:** Adequate

**Comments:**

## **Geometry**

Publisher: Pearson/Prentice Hall

**7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.**

**Rating:** Adequate

**Comments:**

**8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).**

**Rating:** Adequate

**Comments:**

**9. Concepts are explored in depth and reinforced throughout.**

**Rating:** Adequate

**Comments:**

## **Assessment**

**1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Adequate

**Comments:**

**2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating:** Adequate

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**Rating:** Adequate

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**5. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Adequate

**Comments:**

## **Geometry**

Publisher: Pearson/Prentice Hall

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**Rating:** Adequate

**Comments:**

**7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Adequate

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**Comments:**

### **Organization and Structure**

**1. Organization is logical and allows for spiraling of content.**

**Rating:** Adequate

**Comments:**

**2. Language is clear and concise with correct grammar and sentence structure.**

**Rating:** Adequate

## **Geometry**

Publisher: Pearson/Prentice Hall

### **Comments:**

**3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.**

**Rating:** Adequate

**Comments:**

**4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.**

**Rating:** Adequate

**Comments:**

**5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).**

**Rating:** Adequate

**Comments:**

**6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.**

**Rating:** Adequate

**Comments:**

**7. Student materials seem durable and conducive to daily student use (e.g., size, weight).**

**Rating:** Adequate

**Comments:**

**8. Textbook includes appropriate and sufficient glossary, index, and appendices.**

**Rating:** Adequate

**Comments:**

**9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.**

**Rating:** Adequate

**Comments:**

**10. Materials can be easily understood by students and parents.**

**Rating:** Adequate

**Comments:**

## Geometry

Publisher: Pearson/Prentice Hall

### Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.

Rating: Adequate

Comments:

2. Both group and individual activities are included.

Rating: Adequate

Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.

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4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.

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Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.

Rating: Adequate

Comments:

### Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.

Rating: Weak

Comments:

2. Various forms of media are included (e.g., CDs, videos, computer software).

## **Geometry**

Publisher: Pearson/Prentice Hall

**Rating:** Weak

**Comments:**

**3. Student materials are available online.**

**Rating:** Weak

**Comments:**

### **Resource Materials**

**1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

**Rating:** Not Applicable

**Comments:**

**2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

**Rating:** Not Applicable

**Comments:**

**3. Extension activities including adaptations and accommodations for students with special needs.**

**Rating:** Not Applicable

**Comments:**

**4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

**Rating:** Not Applicable

**Comments:**

**5. Suggestions are made for integration of themes and/or interdisciplinary instruction.**

**Rating:** Not Applicable

**Comments:**

**6. Suggestions are made for family and community involvement and school/home communication.**

**Rating:** Not Applicable

**Comments:**

**7. The included media are durable, easy to use, and have technical merit.**

## **Geometry**

Publisher: Pearson/Prentice Hall

**Rating:** Not Applicable

**Comments:**

**8. Teacher resources are available online.**

**Rating:** Not Applicable

**Comments:**



# Precalculus Enhanced w/ Graphing Utilities

Publisher: Pearson/Prentice Hall

**Evaluator Name(s):** Embry, Keith Caldwell, Julie Abshire, Dianna

**Content Level:** Precalculus

Copyright: 2003

## Overall Strengths and/or Weaknesses

**Disclaimer:** Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

### CONTENT/PROCESS

**Strengths:** Problems in the text and on the CD are connected to both the real-world and other content areas. Problem sets lend themselves to adaptations to accommodate students with special needs.

**Weaknesses:** Although problem sets lend themselves to adaptations to accommodate students with special needs, the adaptations are not provided.

### ASSESSMENT

**Strengths:** Problems which allow students to communicate what they know are integrated throughout and noticeably marked. Projects in the text and on the CD are available.

**Weaknesses:** The Instructor's Resource CD contains a test bank via the web that the technology reviewer was unable to access (a password was required and not provided).

### ORGANIZATION AND STRUCTURE

**Strengths:** Lessons indicated places where students are to go to the problem set to practice the presented concept. Identifications are made within problem sets to identify higher level thinking problems.

**Weaknesses:** Appendices are basically algebraic reviews. There is no glossary.

### STUDENT EXPERIENCES

**Strengths:** Higher level thinking problems are identified in the problem sets. Projects and extra problems provided on the CD allow students to apply what they learn.

**Weaknesses:** It appears that students are expected to be proficient users of the graphing calculator and CBL (limited instructions are provided within the text).

### TECHNOLOGY

**Strength:** Graphing calculator use is integrated throughout the text.

**Weaknesses:** CD-based lecture series is mentioned in the gratis items but it was not available for review.

### RESOURCE MATERIALS

**Strengths:** None noted

**Weaknesses:** Technology reviewer was not able to access the test bank on line via the CD. Limited hard copy resources (i.e. no test bank, solution manual, worksheets in hard copy form). Resources provided are not indicated at the point of need. Advice for lesson plan implementation, common student errors, etc. are not provided.

## Precalculus Enhanced w/ Graphing Utilities

Publisher: Pearson/Prentice Hall

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

**Recommended by reviewers to State Textbook Commission as a basal textbook or program.**

### OTHER COMMENTS:

#### ***PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS***

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

## STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

### Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

**Rating:** Adequate

**Comments:**

2. **Content appears to be free from factual errors.**

**Rating:** Adequate

**Comments:**

3. **Content makes connections to other content areas across the curriculum.**

**Rating:** Adequate

**Comments:**

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

**Rating:** Adequate

**Comments:**

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

**Rating:** Adequate

**Comments:**

## Precalculus Enhanced w/ Graphing Utilities

Publisher: Pearson/Prentice Hall

- 6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

**Rating:** Adequate

**Comments:**

- 7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.**

**Rating:** Adequate

**Comments:**

- 8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).**

**Rating:** Adequate

**Comments:**

- 9. Concepts are explored in depth and reinforced throughout.**

**Rating:** Adequate

**Comments:**

### Assessment

- 1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Weak

**Comments:** Problem sets in the text and projects appear to be aligned with content being presented. The Instructor's Resource CD contains a test bank via the web that the technology reviewer was unable to access (a password was required and not provided).

- 2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating:** Weak

**Comments:** Problem sets in the text and projects appear to be aligned with content being presented. The Instructor's Resource CD contains a test bank via the web that the technology reviewer was unable to access (a password was required and not provided).

- 3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating:** Weak

**Comments:** Problem sets in the text and projects appear to be aligned with content being presented. The Instructor's Resource CD contains a test bank via the web that the technology reviewer was unable to access (a password was required and not provided).

## Precalculus Enhanced w/ Graphing Utilities

Publisher: Pearson/Prentice Hall

- 4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Weak

**Comments:** Problem sets in the text and projects appear to be aligned with content being presented. The Instructor's Resource CD contains a test bank via the web that the technology reviewer was unable to access (a password was required and not provided).

- 5. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Weak

**Comments:** Problem sets in the text and projects appear to be aligned with content being presented. The Instructor's Resource CD contains a test bank via the web that the technology reviewer was unable to access (a password was required and not provided).

- 6. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Weak

**Comments:** Problem sets in the text and projects appear to be aligned with content being presented. The Instructor's Resource CD contains a test bank via the web that the technology reviewer was unable to access (a password was required and not provided).

- 7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Weak

**Comments:** Problem sets in the text and projects appear to be aligned with content being presented. The Instructor's Resource CD contains a test bank via the web that the technology reviewer was unable to access (a password was required and not provided).

- 8. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating:** Weak

**Comments:** Problem sets in the text and projects appear to be aligned with content being presented. The Instructor's Resource CD contains a test bank via the web that the technology reviewer was unable to access (a password was required and not provided).

- 9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating:** Weak

**Comments:** Problem sets in the text and projects appear to be aligned with content being presented. The Instructor's Resource CD contains a test bank via the web that the technology reviewer was unable to access (a password was required and not provided).

- 10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Weak

## Precalculus Enhanced w/ Graphing Utilities

Publisher: Pearson/Prentice Hall

**Comments:** Problem sets in the text and projects appear to be aligned with content being presented. The Instructor's Resource CD contains a test bank via the web that the technology reviewer was unable to access (a password was required and not provided).

### **11. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Weak

**Comments:** Problem sets in the text and projects appear to be aligned with content being presented. The Instructor's Resource CD contains a test bank via the web that the technology reviewer was unable to access (a password was required and not provided).

## Organization and Structure

### **1. Organization is logical and allows for spiraling of content.**

**Rating:** Adequate

**Comments:**

### **2. Language is clear and concise with correct grammar and sentence structure.**

**Rating:** Adequate

**Comments:**

### **3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.**

**Rating:** Adequate

**Comments:**

### **4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.**

**Rating:** Adequate

**Comments:**

### **5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).**

**Rating:** Adequate

**Comments:**

### **6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.**

**Rating:** Adequate

**Comments:**

### **7. Student materials seem durable and conducive to daily student use (e.g., size, weight).**

**Rating:** Adequate

## Precalculus Enhanced w/ Graphing Utilities

Publisher: Pearson/Prentice Hall

### Comments:

**8. Textbook includes appropriate and sufficient glossary, index, and appendices.**

**Rating:** Adequate

**Comments:**

**9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.**

**Rating:** Adequate

**Comments:**

**10. Materials can be easily understood by students and parents.**

**Rating:** Adequate

**Comments:**

### Student Experiences

**1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.**

**Rating:** Strong

**Comments:** Higher level thinking problems are identified in the problem sets. Projects and extra problems provided on the CD allow students to apply what they learn.

**2. Both group and individual activities are included.**

**Rating:** Strong

**Comments:** Higher level thinking problems are identified in the problem sets. Projects and extra problems provided on the CD allow students to apply what they learn.

**3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.**

**Rating:** Strong

**Comments:** Higher level thinking problems are identified in the problem sets. Projects and extra problems provided on the CD allow students to apply what they learn.

**4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.**

**Rating:** Strong

## Precalculus Enhanced w/ Graphing Utilities

Publisher: Pearson/Prentice Hall

**Comments:** Higher level thinking problems are identified in the problem sets. Projects and extra problems provided on the CD allow students to apply what they learn.

### **5. Materials and activities encourage students to read, write, and discuss mathematics.**

**Rating:** Strong

**Comments:** Higher level thinking problems are identified in the problem sets. Projects and extra problems provided on the CD allow students to apply what they learn.

### **6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.**

**Rating:** Strong

**Comments:** Higher level thinking problems are identified in the problem sets. Projects and extra problems provided on the CD allow students to apply what they learn.

## Technology

### **1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

**Rating:** Strong

**Comments:** Graphing calculator use is integrated throughout the text. The Instructor's Resource CD contains instructions for using multiple types graphing calculators (i.e. TI, Casio, etc.).

### **2. Various forms of media are included (e.g., CDs, videos, computer software).**

**Rating:** Strong

**Comments:** Graphing calculator use is integrated throughout the text. The Instructor's Resource CD contains instructions for using multiple types graphing calculators (i.e. TI, Casio, etc.).

### **3. Student materials are available online.**

**Rating:** Strong

**Comments:** Graphing calculator use is integrated throughout the text. The Instructor's Resource CD contains instructions for using multiple types graphing calculators (i.e. TI, Casio, etc.).

## Resource Materials

### **1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

**Rating:** Weak

## Precalculus Enhanced w/ Graphing Utilities

Publisher: Pearson/Prentice Hall

**Comments:** Limited hard copy resources (i.e. no test bank, solution manual, worksheets in hard copy form). Resources provided are not indicated at the point of need.

### **2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

**Rating:** Weak

**Comments:** Limited hard copy resources (i.e. no test bank, solution manual, worksheets in hard copy form). Resources provided are not indicated at the point of need.

### **3. Extension activities including adaptations and accommodations for students with special needs.**

**Rating:** Weak

**Comments:** Limited hard copy resources (i.e. no test bank, solution manual, worksheets in hard copy form). Resources provided are not indicated at the point of need.

### **4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

**Rating:** Weak

**Comments:** Limited hard copy resources (i.e. no test bank, solution manual, worksheets in hard copy form). Resources provided are not indicated at the point of need.

### **5. Suggestions are made for integration of themes and/or interdisciplinary instruction.**

**Rating:** Weak

**Comments:** Limited hard copy resources (i.e. no test bank, solution manual, worksheets in hard copy form). Resources provided are not indicated at the point of need.

### **6. Suggestions are made for family and community involvement and school/home communication.**

**Rating:** Weak

**Comments:** Limited hard copy resources (i.e. no test bank, solution manual, worksheets in hard copy form). Resources provided are not indicated at the point of need.

### **7. The included media are durable, easy to use, and have technical merit.**

**Rating:** Weak

**Comments:** Limited hard copy resources (i.e. no test bank, solution manual, worksheets in hard copy form). Resources provided are not indicated at the point of need.

### **8. Teacher resources are available online.**

**Rating:** Weak



## **Precalculus Enhanced w/ Graphing Utilities**

Publisher: Pearson/Prentice Hall

**Comments:** Limited hard copy resources (i.e. no test bank, solution manual, worksheets in hard copy form). Resources provided are not indicated at the point of need.

# Precalculus: Graphical, Numerical, Algebraic

Publisher: Pearson/Prentice Hall

**Evaluator Name(s):** Embry, Keith Caldwell, Julie

Content Level: Precalculus

Copyright: 2001

## Overall Strengths and/or Weaknesses

**Disclaimer:** Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

### CONTENT/PROCESS

**Strengths:** Problems are labeled as to type of application or cross curricular connection. A highlighted review is provided at the beginning of each problem set.

**Weaknesses:** None noted.

### ASSESSMENT

**Strengths:** Problem sets include writing, extensions, and explorations. Each chapter has a project at the end with explorations. Graphing calculator, CBL/CBR technology are suggested and embedded throughout.

**Weaknesses:** None noted.

### ORGANIZATION AND STRUCTURE

**Strengths:** The illustrations within the problem sets are extremely detailed and visually effective. An index of applications is provided. The glossary includes page numbers. The appendices review prerequisite algebra skills as well as providing a list of key formulas and basic functions.

**Weaknesses:** None noted.

### STUDENT EXPERIENCES

**Strengths:** Group activities and explorations are labeled in the activity sets. A set of group activity sheets, which turn select problems in the problem sets into group activities, are provided in the resource materials. Many of the problems in the problem sets are open response. Many discussion and explanation problems are presented in the explorations and group activities.

**Weaknesses:** Graphing calculator is not a primary emphasis. Instructions are not provided throughout.

### TECHNOLOGY

**Strength:** Test Generator is extremely user friendly and allows teacher to input own questions into computer generated tests. Student Tutorial is user friendly and allows teacher to track performance.

**Weaknesses:** Instructions for calculator use are not provided throughout.

### RESOURCE MATERIALS

**Strengths:** A student solution manual is provided one per teacher with the gratis items. A set of transparency master acetates which have quick review problems is provided.

**Weaknesses:** Group activity and major concept worksheets provided are not identified at point of need in the TE.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

## Precalculus: Graphical, Numerical, Algebraic

Publisher: Pearson/Prentice Hall

Recommended by reviewers to State Textbook Commission as a basal textbook or program.

### OTHER COMMENTS:

#### ***PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS***

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

### STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

#### Content/Process

1. Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.

Rating: Strong

Comments:

2. Content appears to be free from factual errors.

Rating: Strong

Comments:

3. Content makes connections to other content areas across the curriculum.

Rating: Strong

Comments:

4. Concepts and application of skills to real-life situations are introduced when appropriate.

Rating: Strong

Comments:

5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.

Rating: Strong

Comments:

6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.

## Precalculus: Graphical, Numerical, Algebraic

Publisher: Pearson/Prentice Hall

**Rating: Strong**

**Comments:**

**7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.**

**Rating: Strong**

**Comments:**

**8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).**

**Rating: Strong**

**Comments:**

**9. Concepts are explored in depth and reinforced throughout.**

**Rating: Strong**

**Comments:**

### Assessment

**1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating: Strong**

**Comments:** Problem sets, review sets, resources in the resource manual, and test items are extremely well aligned.

**2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating: Strong**

**Comments:** Problem sets, review sets, resources in the resource manual, and test items are extremely well aligned.

**3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating: Strong**

**Comments:** Problem sets, review sets, resources in the resource manual, and test items are extremely well aligned.

**4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating: Strong**

**Comments:** Problem sets, review sets, resources in the resource manual, and test items are extremely well aligned.

## **Precalculus: Graphical, Numerical, Algebraic**

Publisher: Pearson/Prentice Hall

**5. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Strong

**Comments:** Problem sets, review sets, resources in the resource manual, and test items are extremely well aligned.

**6. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Strong

**Comments:** Problem sets, review sets, resources in the resource manual, and test items are extremely well aligned.

**7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Strong

**Comments:** Problem sets, review sets, resources in the resource manual, and test items are extremely well aligned.

**8. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating:** Strong

**Comments:** Problem sets, review sets, resources in the resource manual, and test items are extremely well aligned.

**9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating:** Strong

**Comments:** Problem sets, review sets, resources in the resource manual, and test items are extremely well aligned.

**10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Strong

**Comments:** Problem sets, review sets, resources in the resource manual, and test items are extremely well aligned.

**11. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Strong

**Comments:** Problem sets, review sets, resources in the resource manual, and test items are extremely well aligned.

## **Organization and Structure**

**1. Organization is logical and allows for spiraling of content.**

**Rating:** Strong

**Comments:**

## **Precalculus: Graphical, Numerical, Algebraic**

Publisher: Pearson/Prentice Hall

**2. Language is clear and concise with correct grammar and sentence structure.**

**Rating:** Strong

**Comments:**

**3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.**

**Rating:** Strong

**Comments:**

**4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.**

**Rating:** Strong

**Comments:**

**5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).**

**Rating:** Strong

**Comments:**

**6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.**

**Rating:** Strong

**Comments:**

**7. Student materials seem durable and conducive to daily student use (e.g., size, weight).**

**Rating:** Strong

**Comments:**

**8. Textbook includes appropriate and sufficient glossary, index, and appendices.**

**Rating:** Strong

**Comments:**

**9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.**

**Rating:** Strong

**Comments:**

**10. Materials can be easily understood by students and parents.**

**Rating:** Strong

## Precalculus: Graphical, Numerical, Algebraic

Publisher: Pearson/Prentice Hall

### Comments:

### Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.

Rating: Adequate

Comments:

2. Both group and individual activities are included.

Rating: Adequate

Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.

Rating: Adequate

Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.

Rating: Adequate

Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.

Rating: Adequate

Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.

Rating: Adequate

Comments:

### Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.

Rating: Adequate

## Precalculus: Graphical, Numerical, Algebraic

Publisher: Pearson/Prentice Hall

**Comments:** Activities and problems suggest incorporation of technology. Instructions for calculator use are not provided throughout. A graphing calculator manual that gives basic instructions for using the TI, Casio, and HP graphing calculator is provided.

### **2. Various forms of media are included (e.g., CDs, videos, computer software).**

**Rating:** Adequate

**Comments:** Activities and problems suggest incorporation of technology. Instructions for calculator use are not provided throughout. A graphing calculator manual that gives basic instructions for using the TI, Casio, and HP graphing calculator is provided.

### **3. Student materials are available online.**

**Rating:** Adequate

**Comments:** Activities and problems suggest incorporation of technology. Instructions for calculator use are not provided throughout. A graphing calculator manual that gives basic instructions for using the TI, Casio, and HP graphing calculator is provided.

## Resource Materials

### **1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

**Rating:** Adequate

**Comments:** Group activity and major concept worksheets provided are not identified at point of need in the TE.

### **2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

**Rating:** Adequate

**Comments:** Group activity and major concept worksheets provided are not identified at point of need in the TE.

### **3. Extension activities including adaptations and accommodations for students with special needs.**

**Rating:** Adequate

**Comments:** Group activity and major concept worksheets provided are not identified at point of need in the TE.

### **4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

**Rating:** Adequate

**Comments:** Group activity and major concept worksheets provided are not identified at point of need in the TE.

### **5. Suggestions are made for integration of themes and/or interdisciplinary instruction.**

**Rating:** Adequate

**Comments:** Group activity and major concept worksheets provided are not identified at point of need in the TE.



## **Precalculus: Graphical, Numerical, Algebraic**

Publisher: Pearson/Prentice Hall

### **6. Suggestions are made for family and community involvement and school/home communication.**

**Rating:** Adequate

**Comments:** Group activity and major concept worksheets provided are not identified at point of need in the TE.

### **7. The included media are durable, easy to use, and have technical merit.**

**Rating:** Adequate

**Comments:** Group activity and major concept worksheets provided are not identified at point of need in the TE.

### **8. Teacher resources are available online.**

**Rating:** Adequate

**Comments:** Group activity and major concept worksheets provided are not identified at point of need in the TE.

# Prentice Hall Connected Mathematics Program

Publisher: Pearson/Prentice Hall

**Evaluator Name(s):** Durham, Keith Lindsey, Janet McNew, Melinda Wilson, Kellie

Content Level:

Copyright: 2002

## Overall Strengths and/or Weaknesses

**Disclaimer:** Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

### CONTENT/PROCESS

**Strengths:** The program includes in-depth investigation of mathematics concepts in each of the Kentucky Core Content strands. Materials address various learning styles by using a discovery-based approach.

**Weaknesses:** No weaknesses observed.

### ASSESSMENT

**Strengths:** A wide variety of assessment techniques are used. Students are asked to think about mathematics and reflect upon their own learning. Assessments allow students to demonstrate concepts in real-world situations. Open-response questions are included throughout the series.

**Weaknesses:** No weaknesses observed.

### ORGANIZATION AND STRUCTURE

**Strengths:** Material for each year of study is divided into eight thematic units that each include multiple real-world problem situations. Lessons are interconnected throughout.

**Weaknesses:** There is no "master" glossary or index for the series, other than those in individual modules.

### STUDENT EXPERIENCES

**Strengths:** The program is very student-centered. Students are consistently asked to justify, extend, explore, and reflect upon the mathematical concepts they are studying.

**Weaknesses:** No weaknesses observed.

### TECHNOLOGY

**Strength:** Many activities are well-suited for the use of spreadsheets and calculators.

**Weaknesses:** Few direct references to technology are made in the program.

### RESOURCE MATERIALS

**Strengths:** The teacher guide provides extensive resources for each unit, including extensions, adaptations, and references. There is a thorough explanation about the use of manipulatives in each unit.

**Weaknesses:** Online resources are limited.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

## Prentice Hall Connected Mathematics Program

Publisher: Pearson/Prentice Hall

**Recommended by reviewers to State Textbook Commission as a basal textbook or program.**

### OTHER COMMENTS:

#### ***PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS***

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

### STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

#### **Content/Process**

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

**Rating: Strong**

**Comments:**

2. **Content appears to be free from factual errors.**

**Rating: Strong**

**Comments:**

3. **Content makes connections to other content areas across the curriculum.**

**Rating: Strong**

**Comments:**

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

**Rating: Strong**

**Comments:**

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

**Rating: Strong**

**Comments:**

6. **Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

**Rating: Strong**

**Comments:**

## **Prentice Hall Connected Mathematics Program**

Publisher: Pearson/Prentice Hall

**7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.**

**Rating:** Strong

**Comments:**

**8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).**

**Rating:** Strong

**Comments:**

**9. Concepts are explored in depth and reinforced throughout.**

**Rating:** Strong

**Comments:**

### **Assessment**

**1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Strong

**Comments:**

**2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating:** Strong

**Comments:**

**3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating:** Strong

**Comments:**

**4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Strong

**Comments:**

**5. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Strong

## **Prentice Hall Connected Mathematics Program**

Publisher: Pearson/Prentice Hall

### **Comments:**

**6. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Strong

**Comments:**

**7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Strong

**Comments:**

**8. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating:** Strong

**Comments:**

**9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating:** Strong

**Comments:**

**10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Strong

**Comments:**

**11. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Strong

**Comments:**

### **Organization and Structure**

**1. Organization is logical and allows for spiraling of content.**

**Rating:** Strong

**Comments:**

**2. Language is clear and concise with correct grammar and sentence structure.**

## **Prentice Hall Connected Mathematics Program**

Publisher: Pearson/Prentice Hall

**Rating:** Strong

**Comments:**

**3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.**

**Rating:** Strong

**Comments:**

**4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.**

**Rating:** Strong

**Comments:**

**5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).**

**Rating:** Strong

**Comments:**

**6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.**

**Rating:** Strong

**Comments:**

**7. Student materials seem durable and conducive to daily student use (e.g., size, weight).**

**Rating:** Strong

**Comments:**

**8. Textbook includes appropriate and sufficient glossary, index, and appendices.**

**Rating:** Strong

**Comments:**

**9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.**

**Rating:** Strong

**Comments:**

**10. Materials can be easily understood by students and parents.**

**Rating:** Strong

**Comments:**

## Prentice Hall Connected Mathematics Program

Publisher: Pearson/Prentice Hall

### Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.

Rating: Strong

Comments:

2. Both group and individual activities are included.

Rating: Strong

Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.

Rating: Strong

Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.

Rating: Strong

Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.

Rating: Strong

Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.

Rating: Strong

Comments:

### Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.

Rating: Adequate

**Comments:** The program is not dependent upon the availability of technology, but many activities lend themselves to the use of spreadsheets or calculators.

## **Prentice Hall Connected Mathematics Program**

Publisher: Pearson/Prentice Hall

### **2. Various forms of media are included (e.g., CDs, videos, computer software).**

**Rating:** Adequate

**Comments:** The program is not dependent upon the availability of technology, but many activities lend themselves to the use of spreadsheets or calculators.

### **3. Student materials are available online.**

**Rating:** Adequate

**Comments:** The program is not dependent upon the availability of technology, but many activities lend themselves to the use of spreadsheets or calculators.

## **Resource Materials**

### **1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

**Rating:** Strong

**Comments:**

### **2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

**Rating:** Strong

**Comments:**

### **3. Extension activities including adaptations and accommodations for students with special needs.**

**Rating:** Strong

**Comments:**

### **4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

**Rating:** Strong

**Comments:**

### **5. Suggestions are made for integration of themes and/or interdisciplinary instruction.**

**Rating:** Strong

**Comments:**

### **6. Suggestions are made for family and community involvement and school/home communication.**

**Rating:** Strong



## **Prentice Hall Connected Mathematics Program**

Publisher: Pearson/Prentice Hall

### **Comments:**

**7. The included media are durable, easy to use, and have technical merit.**

**Rating:** Strong

### **Comments:**

**8. Teacher resources are available online.**

**Rating:** Strong

### **Comments:**

# Scott Foresman-Addison Wesley Middle School Math, Courses 1-3

Publisher: Pearson/Prentice Hall

**Evaluator Name(s):** Durham, Keith Lindsey, Janet McNew, Melinda Wilson, Kellie

Content Level:

Copyright: 2002

## Overall Strengths and/or Weaknesses

**Disclaimer:** Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

### CONTENT/PROCESS

**Strengths:** The series is comprehensive and includes all elements of the Kentucky Core Content for Math Assessment.

**Weaknesses:** No weaknesses observed.

### ASSESSMENT

**Strengths:** Student assessment is aligned with the instructional program. A variety of assessment tools are available, including open-response questions.

**Weaknesses:** No weaknesses observed.

### ORGANIZATION AND STRUCTURE

**Strengths:** Individual lessons include review exercises for spiraling of content. Key terms are clearly defined in lessons. The glossary is extensive and includes page references. Material follows a logical progression.

**Weaknesses:** No weaknesses observed.

### STUDENT EXPERIENCES

**Strengths:** The series engages students in a variety of activities that foster mathematical thinking. Opportunities for real-world connections are frequently presented.

**Weaknesses:** Units generally consist of related skills, but some relationships between different skills are not explicitly made (e.g., field properties).

### TECHNOLOGY

**Strength:** The series allows for frequent use of technology, particularly calculators and spreadsheets. Some on-line materials are available for teachers and parents.

**Weaknesses:** The teacher's edition includes some reference to videos and software that must be purchased separately.

### RESOURCE MATERIALS

**Strengths:** The teacher's edition provides page references in the margins of each lesson for support materials. These materials are included in the Teacher Resource Package. Middle Grades KCCT Test Prep is available on request.

**Weaknesses:** No weaknesses observed.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

## Scott Foresman-Addison Wesley Middle School Math, Courses 1-3

Publisher: Pearson/Prentice Hall

**Recommended by reviewers to State Textbook Commission as a basal textbook or program.**

### OTHER COMMENTS:

#### ***PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS***

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

### STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

#### **Content/Process**

- 1. Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

**Rating:** Strong

**Comments:** Evidence of Kentucky Core Content is strong throughout the series.

- 2. Content appears to be free from factual errors.**

**Rating:** Strong

**Comments:** Evidence of Kentucky Core Content is strong throughout the series.

- 3. Content makes connections to other content areas across the curriculum.**

**Rating:** Strong

**Comments:** Evidence of Kentucky Core Content is strong throughout the series.

- 4. Concepts and application of skills to real-life situations are introduced when appropriate.**

**Rating:** Strong

**Comments:** Evidence of Kentucky Core Content is strong throughout the series.

- 5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

**Rating:** Strong

**Comments:** Evidence of Kentucky Core Content is strong throughout the series.

- 6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

**Rating:** Strong

**Comments:** Evidence of Kentucky Core Content is strong throughout the series.

## **Scott Foresman-Addison Wesley Middle School Math, Courses 1-3**

Publisher: Pearson/Prentice Hall

**7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.**

**Rating:** Strong

**Comments:** Evidence of Kentucky Core Content is strong throughout the series.

**8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).**

**Rating:** Strong

**Comments:** Evidence of Kentucky Core Content is strong throughout the series.

**9. Concepts are explored in depth and reinforced throughout.**

**Rating:** Strong

**Comments:** Evidence of Kentucky Core Content is strong throughout the series.

### **Assessment**

**1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Strong

**Comments:**

**2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating:** Strong

**Comments:**

**3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating:** Strong

**Comments:**

**4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Strong

**Comments:**

**5. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Strong

## **Scott Foresman-Addison Wesley Middle School Math, Courses 1-3**

Publisher: Pearson/Prentice Hall

### **Comments:**

**6. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Strong

**Comments:**

**7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Strong

**Comments:**

**8. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

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**Rating:** Strong

**Comments:**

**10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Strong

**Comments:**

**11. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Strong

**Comments:**

### **Organization and Structure**

**1. Organization is logical and allows for spiraling of content.**

**Rating:** Strong

**Comments:**

**2. Language is clear and concise with correct grammar and sentence structure.**

**Scott Foresman-Addison Wesley Middle School Math, Courses 1-3**

Publisher: Pearson/Prentice Hall

**Rating:** Strong

**Comments:**

**3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.**

**Rating:** Strong

**Comments:**

**4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.**

**Rating:** Strong

**Comments:**

**5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).**

**Rating:** Strong

**Comments:**

**6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.**

**Rating:** Strong

**Comments:**

**7. Student materials seem durable and conducive to daily student use (e.g., size, weight).**

**Rating:** Strong

**Comments:**

**8. Textbook includes appropriate and sufficient glossary, index, and appendices.**

**Rating:** Strong

**Comments:**

**9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.**

**Rating:** Strong

**Comments:**

**10. Materials can be easily understood by students and parents.**

**Rating:** Strong

**Comments:**

## Scott Foresman-Addison Wesley Middle School Math, Courses 1-3

Publisher: Pearson/Prentice Hall

### Student Experiences

1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.

Rating: Strong

Comments:

2. Both group and individual activities are included.

Rating: Strong

Comments:

3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.

Rating: Strong

Comments:

4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.

Rating: Strong

Comments:

5. Materials and activities encourage students to read, write, and discuss mathematics.

Rating: Strong

Comments:

6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.

Rating: Strong

Comments:

### Technology

1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.

Rating: Adequate

Comments:

2. Various forms of media are included (e.g., CDs, videos, computer software).

## **Scott Foresman-Addison Wesley Middle School Math, Courses 1-3**

Publisher: Pearson/Prentice Hall

**Rating:** Adequate

**Comments:**

**3. Student materials are available online.**

**Rating:** Adequate

**Comments:**

### **Resource Materials**

**1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

**Rating:** Strong

**Comments:**

**2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

**Rating:** Strong

**Comments:**

**3. Extension activities including adaptations and accommodations for students with special needs.**

**Rating:** Strong

**Comments:**

**4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

**Rating:** Strong

**Comments:**

**5. Suggestions are made for integration of themes and/or interdisciplinary instruction.**

**Rating:** Strong

**Comments:**

**6. Suggestions are made for family and community involvement and school/home communication.**

**Rating:** Strong

**Comments:**

**7. The included media are durable, easy to use, and have technical merit.**



**Scott Foresman-Addison Wesley Middle School Math, Courses 1-3**

Publisher: Pearson/Prentice Hall

**Rating:** Strong

**Comments:**

**8. Teacher resources are available online.**

**Rating:** Strong

**Comments:**

# Calculus: Graphical, Numerical, Algebraic

Publisher: Pearson/Prentice-Hall

**Evaluator Name(s):** McCord, Bobbie Son, Steve

**Content Level:**

Copyright: 2003

## Overall Strengths and/or Weaknesses

**Disclaimer:** Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

### CONTENT/PROCESS

**Strengths:** Designed for an AP class.

**Weaknesses:** None noted.

### ASSESSMENT

**Strengths:** None noted.

**Weaknesses:** None noted.

### ORGANIZATION AND STRUCTURE

**Strengths:** None noted.

**Weaknesses:** None noted.

### STUDENT EXPERIENCES

**Strengths:** None noted.

**Weaknesses:** None noted.

### TECHNOLOGY

**Strength:** None noted.

**Weaknesses:** The current site does not contain access to this book.

### RESOURCE MATERIALS

**Strengths:** None noted.

**Weaknesses:** Current site does not contain access to this book.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

**Recommended by reviewers to State Textbook Commission as a basal textbook or program.**

### OTHER COMMENTS:

## Calculus: Graphical, Numerical, Algebraic

Publisher: Pearson/Prentice-Hall

### ***PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS***

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

## STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT

### Content/Process

1. **Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

Rating: Not Applicable

Comments:

2. **Content appears to be free from factual errors.**

Rating: Not Applicable

Comments:

3. **Content makes connections to other content areas across the curriculum.**

Rating: Not Applicable

Comments:

4. **Concepts and application of skills to real-life situations are introduced when appropriate.**

Rating: Not Applicable

Comments:

5. **Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

Rating: Not Applicable

Comments:

6. **Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

Rating: Not Applicable

Comments:

7. **Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.**

## **Calculus: Graphical, Numerical, Algebraic**

Publisher: Pearson/Prentice-Hall

**Rating:** Not Applicable

**Comments:**

**8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).**

**Rating:** Not Applicable

**Comments:**

**9. Concepts are explored in depth and reinforced throughout.**

**Rating:** Not Applicable

**Comments:**

### **Assessment**

**1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Adequate

**Comments:**

**2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating:** Adequate

**Comments:**

**3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating:** Adequate

**Comments:**

**4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Adequate

**Comments:**

**5. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Adequate

**Comments:**

## **Calculus: Graphical, Numerical, Algebraic**

Publisher: Pearson/Prentice-Hall

**6. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Adequate

**Comments:**

**7. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Adequate

**Comments:**

**8. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating:** Adequate

**Comments:**

**9. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating:** Adequate

**Comments:**

**10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Adequate

**Comments:**

**11. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Adequate

**Comments:**

### **Organization and Structure**

**1. Organization is logical and allows for spiraling of content.**

**Rating:** Adequate

**Comments:**

**2. Language is clear and concise with correct grammar and sentence structure.**

**Rating:** Adequate

**Comments:**

## **Calculus: Graphical, Numerical, Algebraic**

Publisher: Pearson/Prentice-Hall

**3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.**

**Rating:** Adequate

**Comments:**

**4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.**

**Rating:** Adequate

**Comments:**

**5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).**

**Rating:** Adequate

**Comments:**

**6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.**

**Rating:** Adequate

**Comments:**

**7. Student materials seem durable and conducive to daily student use (e.g., size, weight).**

**Rating:** Adequate

**Comments:**

**8. Textbook includes appropriate and sufficient glossary, index, and appendices.**

**Rating:** Adequate

**Comments:**

**9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.**

**Rating:** Adequate

**Comments:**

**10. Materials can be easily understood by students and parents.**

**Rating:** Adequate

**Comments:**

## **Student Experiences**

## **Calculus: Graphical, Numerical, Algebraic**

Publisher: Pearson/Prentice-Hall

**1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.**

**Rating:** Adequate

**Comments:**

**2. Both group and individual activities are included.**

**Rating:** Adequate

**Comments:**

**3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.**

**Rating:** Adequate

**Comments:**

**4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.**

**Rating:** Adequate

**Comments:**

**5. Materials and activities encourage students to read, write, and discuss mathematics.**

**Rating:** Adequate

**Comments:**

**6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.**

**Rating:** Adequate

**Comments:**

### **Technology**

**1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

**Rating:** Adequate

**Comments:**

**2. Various forms of media are included (e.g., CDs, videos, computer software).**

**Rating:** Adequate

## **Calculus: Graphical, Numerical, Algebraic**

Publisher: Pearson/Prentice-Hall

**Comments:**

**3. Student materials are available online.**

**Rating:** Adequate

**Comments:**

### **Resource Materials**

**1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

**Rating:** Adequate

**Comments:**

**2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

**Rating:** Adequate

**Comments:**

**3. Extension activities including adaptations and accommodations for students with special needs.**

**Rating:** Adequate

**Comments:**

**4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

**Rating:** Adequate

**Comments:**

**5. Suggestions are made for integration of themes and/or interdisciplinary instruction.**

**Rating:** Adequate

**Comments:**

**6. Suggestions are made for family and community involvement and school/home communication.**

**Rating:** Adequate

**Comments:**

**7. The included media are durable, easy to use, and have technical merit.**

**Rating:** Adequate



## **Calculus: Graphical, Numerical, Algebraic**

Publisher: Pearson/Prentice-Hall

### **Comments:**

**8. Teacher resources are available online.**

**Rating:** Adequate

### **Comments:**

## **Middle Grades Math : Tools for Success --Courses 1-3**

Publisher: Pearson/Prentice-Hall

**Evaluator Name(s):** Bryan, Chris Dunn, Kember McNew, Melinda Wilson, Kellie

Content Level: Mathematics 6-8

Copyright: 2001

### **Overall Strengths and/or Weaknesses**

**Disclaimer:** Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

#### **CONTENT/PROCESS**

**Strengths:** The Kentucky Core Content is covered completely in courses 1-3 of this textbook. Content is spiraled.

**Weaknesses:** None observed.

#### **ASSESSMENT**

**Strengths:** This textbook provides a variety of assessment methods (e.g., portfolio, standardized test practice, quizzes, tests).

**Weaknesses:** None observed.

#### **ORGANIZATION AND STRUCTURE**

**Strengths:** This textbook is logically organized. Key terms are "highlighted" within each section.

**Weaknesses:** None observed.

#### **STUDENT EXPERIENCES**

**Strengths:** The textbook provides activities that encourage students to explore and investigate mathematical ideas through various problem-solving techniques.

**Weaknesses:** None observed.

#### **TECHNOLOGY**

**Strength:** The textbook suggests using various forms of media (e.g., CDs, videos, computer software). The textbook includes a test generator and a resource CD.

**Weaknesses:** None observed.

#### **RESOURCE MATERIALS**

**Strengths:** The textbook includes several resources to assist classroom teacher such as student workbooks, answer keys, on-line resources, Spanish supplements, etc.

**Weaknesses:** None observed.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

**Recommended by reviewers to State Textbook Commission as a basal textbook or program.**

## **Middle Grades Math : Tools for Success --Courses 1-3**

Publisher: Pearson/Prentice-Hall

**OTHER COMMENTS:** This textbook includes a Kentucky Assessment Success kit which contains a CATS Test Prep Workbook, Student Tutorial CD-ROM, Computer Item Generator, and Test Taking Tips on Transparencies.

### ***PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS***

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

## **STANDARDS FOR MATHEMATICS EVALUATION INSTRUMENT**

### **Content/Process**

- 1. Material is comprehensive and includes content emphasized in Kentucky's Learning Goals and Academic Expectations and supported by the Core Content for Assessment, Program of Studies, and relevant National Standards.**

**Rating:** Strong

**Comments:**

- 2. Content appears to be free from factual errors.**

**Rating:** Strong

**Comments:**

- 3. Content makes connections to other content areas across the curriculum.**

**Rating:** Strong

**Comments:**

- 4. Concepts and application of skills to real-life situations are introduced when appropriate.**

**Rating:** Strong

**Comments:**

- 5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

**Rating:** Strong

**Comments:**

- 6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

**Rating:** Strong

**Comments:**

## **Middle Grades Math : Tools for Success --Courses 1-3**

Publisher: Pearson/Prentice-Hall

**7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.**

**Rating:** Strong

**Comments:**

**8. Content reflects research-based practices (e.g., hands-on activities, technology, problem-solving situations).**

**Rating:** Strong

**Comments:**

**9. Concepts are explored in depth and reinforced throughout.**

**Rating:** Strong

**Comments:**

### **Assessment**

**1. Student assessment is aligned with the instructional program. Assessment activities are similar to learning activities.**

**Rating:** Strong

**Comments:**

**2. Assessment activities examine the extent to which students have internalized and made sense of mathematical concepts and whether they can use mathematics to communicate their ideas.**

**Rating:** Strong

**Comments:**

**3. Assessment activities provide opportunities for students to demonstrate knowledge and skills in real-life situations and interdisciplinary applications.**

**Rating:** Strong

**Comments:**

**4. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Strong

**Comments:**

**5. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Strong

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**10. A variety of assessments (e.g., diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer, performance, portfolio prompts) is included.**

**Rating:** Strong

**Comments:**

**11. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Strong

**Comments:**

### **Organization and Structure**

**1. Organization is logical and allows for spiraling of content.**

**Rating:** Strong

**Comments:**

**2. Language is clear and concise with correct grammar and sentence structure.**

## **Middle Grades Math : Tools for Success --Courses 1-3**

Publisher: Pearson/Prentice-Hall

**Rating:** Strong

**Comments:**

**3. Vocabulary and key terms are clearly defined and easily accessible within each lesson.**

**Rating:** Strong

**Comments:**

**4. Visual illustrations (e.g., graphs, charts, models) and examples are clearly presented and content-related.**

**Rating:** Strong

**Comments:**

**5. Illustrations and language reflect diversity (e.g., racial, ethnic, cultural, age, gender, disabilities).**

**Rating:** Strong

**Comments:**

**6. Legible type, length of lines, spacing, page layout, and width of margins contribute to overall appearance and use.**

**Rating:** Strong

**Comments:**

**7. Student materials seem durable and conducive to daily student use (e.g., size, weight).**

**Rating:** Strong

**Comments:**

**8. Textbook includes appropriate and sufficient glossary, index, and appendices.**

**Rating:** Strong

**Comments:**

**9. Materials are organized into units of study (or similar structures) with daily lessons that include worthwhile, real-world tasks.**

**Rating:** Strong

**Comments:**

**10. Materials can be easily understood by students and parents.**

**Rating:** Strong

**Comments:**

## **Middle Grades Math : Tools for Success --Courses 1-3**

Publisher: Pearson/Prentice-Hall

### **Student Experiences**

- 1. The program emphasizes students *doing* mathematics rather than *memorizing* mathematics.**

**Rating:** Strong

**Comments:**

- 2. Both group and individual activities are included.**

**Rating:** Strong

**Comments:**

- 3. Materials and activities provide authentic applications that allow students to make meaningful connections across the curriculum, to real-world situations, and to interrelated mathematical concepts.**

**Rating:** Strong

**Comments:**

- 4. Materials and activities encourage students to explore and investigate mathematical ideas through various problem-solving techniques.**

**Rating:** Strong

**Comments:**

- 5. Materials and activities encourage students to read, write, and discuss mathematics.**

**Rating:** Strong

**Comments:**

- 6. Materials and activities ask students to reflect upon, clarify, justify, and generalize their mathematical ideas.**

**Rating:** Strong

**Comments:**

### **Technology**

- 1. In order for students to focus on decision-making, reflection, reasoning, and problem solving, instructional activities incorporate the use of technology (e.g. calculators, probes, computers) and include instructions on how to use the technology tools.**

**Rating:** Strong

**Comments:**

- 2. Various forms of media are included (e.g., CDs, videos, computer software).**

## **Middle Grades Math : Tools for Success --Courses 1-3**

Publisher: Pearson/Prentice-Hall

**Rating:** Strong

**Comments:**

**3. Student materials are available online.**

**Rating:** Strong

**Comments:**

### **Resource Materials**

**1. Teacher materials coordinate easily with student materials (e.g., additional resources included at point of need, student pages shown, manipulatives appropriate for indicated lesson, instructional technology indicated).**

**Rating:** Strong

**Comments:** Margins include suggestions for teaching.

**2. Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.**

**Rating:** Strong

**Comments:** Margins include suggestions for teaching.

**3. Extension activities including adaptations and accommodations for students with special needs.**

**Rating:** Strong

**Comments:** Margins include suggestions for teaching.

**4. Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections within mathematics, and references (e.g., solutions manuals, study guides).**

**Rating:** Strong

**Comments:** Margins include suggestions for teaching.

**5. Suggestions are made for integration of themes and/or interdisciplinary instruction.**

**Rating:** Strong

**Comments:** Margins include suggestions for teaching.

**6. Suggestions are made for family and community involvement and school/home communication.**

**Rating:** Strong

**Comments:** Margins include suggestions for teaching.

**7. The included media are durable, easy to use, and have technical merit.**



## **Middle Grades Math : Tools for Success --Courses 1-3**

Publisher: Pearson/Prentice-Hall

**Rating:** Strong

**Comments:** Margins include suggestions for teaching.

### **8. Teacher resources are available online.**

**Rating:** Strong

**Comments:** Margins include suggestions for teaching.

# Pre-Algebra : Tools for a Changing World

Publisher: Pearson/Prentice-Hall

**Evaluator Name(s):** Bryan, Chris Dunn, Kember McNew, Melinda Wilson, Kellie

Content Level: Mathematics 7-12

Copyright: 2001

## Overall Strengths and/or Weaknesses

**Disclaimer:** Comments on the strengths and/or weaknesses of each book or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/Instructional Materials Review team completed each evaluation form during the week of July 8-12, 2002. In order to maintain the integrity of the review team's comments, editing was limited to spelling and punctuation.

### CONTENT/PROCESS

**Strengths:** This textbook covers Kentucky Core Content for middle school, as well as addressing some high school standards.

**Weaknesses:** None observed.

### ASSESSMENT

**Strengths:** This textbook has assessment opportunities that are ongoing and woven throughout the program.

**Weaknesses:** None observed.

### ORGANIZATION AND STRUCTURE

**Strengths:** This textbook is well organized.

**Weaknesses:** None observed.

### STUDENT EXPERIENCES

**Strengths:** This textbook promotes hands-on and group learning.

**Weaknesses:** None observed.

### TECHNOLOGY

**Strength:** The textbook incorporates the use of technology and includes instructions on how to use the technology tools.

**Weaknesses:** None observed.

### RESOURCE MATERIALS

**Strengths:** The textbook contains teacher materials that coordinate easily with student materials (e.g. shown student pages, listing manipulatives as appropriate, indicating instructional technology).

**Weaknesses:** None observed.

If this material is available in digital format, KDE strongly recommends that it be considered if there are students in the school who have a need for this type of material. **Is Not Available in digital format**

**Recommended by reviewers to State Textbook Commission as a basal textbook or program.**

## **Pre-Algebra : Tools for a Changing World**

Publisher: Pearson/Prentice-Hall

**OTHER COMMENTS:** This textbook includes a Kentucky Assessment Success kit which contains a CATS Test Prep Workbook, Student Tutorial CD-ROM, Computer Item Generator, and Test Taking Tips on Transparencies. This challenging textbook is targeted for grades 7-12 and will prepare students for Algebra I.

### ***PUBLISHER'S EXPLANATION OF REVIEWERS' COMMENTS***

(By action of the State Textbook Commission, publishers are being provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the written evaluation.)

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- 5. Content appears to be free of social, ethnic, racial, religious, gender, and geographic bias.**

**Rating:** Strong

**Comments:**

- 6. Material is flexible and accommodates various learning styles, interest/ability levels, and intelligences, including adaptations and accommodations for students with special needs.**

## **Pre-Algebra : Tools for a Changing World**

Publisher: Pearson/Prentice-Hall

**Rating: Strong**

**Comments:**

**7. Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.**

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**Rating: Strong**

**Comments:**

## **Pre-Algebra : Tools for a Changing World**

Publisher: Pearson/Prentice-Hall

**5. Assessment activities provide opportunities for student integration of technology in the assessment process.**

**Rating:** Strong

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Publisher: Pearson/Prentice-Hall

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**Comments:**

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Publisher: Pearson/Prentice-Hall

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**Rating:** Strong

**Comments:**

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